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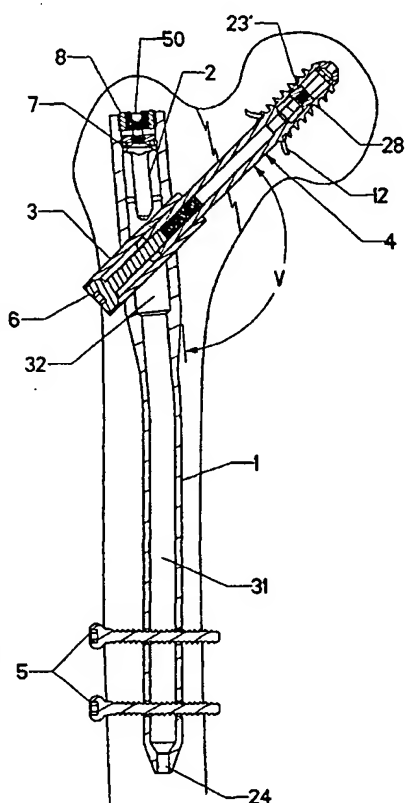
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(54) Title: INTRAMEDULLARY HIP NAIL WITH BIFURCATED LOCK



(57) Abstract: The intramedullary nail system includes an intramedullary nail (19) for insertion in the femur. The nail has an axial bore (31, 32, 34) and an intersecting transverse bore (33). A lag screw (49) is inserted through the transverse bore and turned into the head of the femur. A slotted sleeve (3) is inserted over the lag screw and through the transverse bore with the slots (9) aligned with the axial bore. A sleeve lock (2) is inserted into the axial bore and has a locking tab which engages the slots in the sleeve preventing rotational and longitudinal movement between the sleeve and the nail. A compression screw (6) is turned into the trailing end of the lag screw and engages the encircling sleeve to provide longitudinal translation between the lag screw and sleeve to apply compressive force across a fracture.

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## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 441 577 A (SMITH & NEPHEW RICHARDS) 14 August 1991 (1991-08-14)	1,5
Y	column 4, line 19 - line 24; figure 1 column 4, line 56 - line 58 ---	12
X	US 6 077 264 A (A.CHEMELLO) 20 June 2000 (2000-06-20) cited in the application	1,3,5
Y	column 1, line 51 - line 53; figures 6,8,12 column 4, line 49 - line 54 ---	6,7
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 76414 A (ORTHODYNE) 21 December 2000 (2000-12-21)	1,2,5, 8-10
Y	page 16, line 10 -page 17, line 9; figures 1,2,6,7 page 17, line 20 - line 29 page 18, line 30 - line 31 page 21, line 1 - line 3 ---	12
Y	US 5 976 139 A (D.G.BRAMLET) 2 November 1999 (1999-11-02) cited in the application figures 2,5-6,25A-B,40,42-44,61-64 ---	6,7
P,X	US 6 443 954 B1 (D.G.BRAMLET ET AL.) 3 September 2002 (2002-09-03) cited in the application the whole document ---	1-8
P,X	WO 02 067794 A (TQO) 6 September 2002 (2002-09-06) abstract; figure 2 -----	1,3,5,7

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Information on patent family members

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